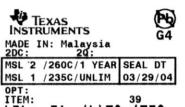
PCN Number: 20200304005.1 PCN Date: Mar 5, 2020																	
Title: Qualification of Carsem Suzhou an additional Assembly site for Select Devices								•									
Customer Contact: PCN Manager Dept: Quality Services																	
							Estimated S								ded at		
Proposed 1st Ship Date: June !						5, 2020			Availab								
Cha	Change Type:																
	Asse	embly Site	9				Design Wafer Bump					p Site	2				
		embly Pro					Data Sheet Wafer Bump M										
		embly Ma				Щ	Part number change Wafer Bump Pr							cess			
		hanical S				Щ	Test Site Wafer Fab Site										
Ш	Paci	king/Ship	ping/La	ibeli	ng		Test Process Wafer Fab Mate										
PCN Details Wafer Fab Process									SS								
Doc	orin	tion of C	banga				PC	14	Details								
Des	сгір	tion of C	nange														
Texas Instruments is pleased to announce the qualification Carsem Suzhou as an additional assembly site for the list of devices below. Current assembly site and Material differences are as follows:																	
									CDAT	Carse			m				
			Mou	nt (Compo	mpound			4207123	SID#44315			6				
Mold Compo			mpour	ound			4222198	SID#441086			6						
		for Char															
Continuity of Supply																	
		ated imp	act on	For	m, Fit	, Fı	unctio	n,	Quality or Re	eliat	ilit	ty (po	siti	ve ,	/ neg	jative):	
None																	
Anticipated impact on Material Declaration																	
					Material Declarations or Product Content reports are driven rom production data and will be available following the												
					production release. Upon production release the revised												
				reports can be obtained at the site link below													
					http://www.ti.com/quality/docs/materialcontentsearch.tsp												
	inseptif in the control of the contr																
Changes to product identification resulting from this PCN:																	
Assembly Site Assembly Site Origin					(22L)	Assembly Country Code (2			(2	23L) As			embly	City			
Т	ΓΙ Ch	engdu		CDA			CHN							Chengdu			
	Carsem			CSZ					CHN				Jiangsu				
Sample product shipping label (not actual product label)																	





(1P) SN74LS07NSR (a) 2000 (D) 0336 (31T)LOT: 3959047MLA 4W) TKY(1T) 7523483S12

(P) (2P) REV: (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MVC (23L) ACO: MYS

Product Affected:

L					
	BQ25710RSNR	BQ25713BRSNR	BQ25713RSNR	BQ25713RSNT	
	BQ25710RSNT	BQ25713BRSNT			



TI Confidential Selective Disclosure

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Туре	Test Name / Condition	Duration	QBS Product Reference: <u>BQ25700ARSNR</u>	QBS Product Reference: BQ25710RSNR	QBS Process Reference: <u>TPS51217DSC</u>	QBS Package Reference: <u>TLC5951RTA</u>
AC	Autoclave 121C	96 Hours	-	-	6/462/0	-
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass
ELFR	Early Life Failure Rate, 85C	48 Hours	-	-		-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-
HAST	Biased HAST, 110C/85%RH	264 Hours	-	-	-	3/231/0
HBM	ESD - HBM	2000 V	1/3/0	-	3/9/0	1/3/0
HBM	ESD - HBM Relay Based (Mk2) Disposition	Split A1/1000V	-	-	-	-
CDM	ESD - CDM	1500 V	1/3/0	1/3/0	3/9/0	1/3/0
HTOL	Life Test, 125C	1000 Hours	1/77/0	-	-	1/77/0
HTOL	Life Test, 135C	635 Hours	-	-	3/231/0	-
HTOL	Life Test, 70C	1000 Hours	-	-	-	-
HTOL	Life Test, 70C	1052 Hours	-	-	-	-
HTOL	Life Test, 70C	452 Hours	-	-	•	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	1/50/0
LU	Latch-up	(per JESD78)	1/12/0	1/6/0	3/18/0	1/6/0
SD	Solderability	Pb Free	-	-	-	3/15/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	3/231/0
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	2/231/0
WBP	Bond Strength	Wires	-	-	-	3/108/0
WBS	Ball Bond Shear	Wires	-	-	1	3/108/0

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL2-260CG: BQ25710RSN
- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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